



# YOSHIMURA

RESEARCH&DEVELOPMENT OF AMERICA, INC.

5420 DANIELS STREET SUITE A, CHINO CA 91710 · (800)634-9166 · (909)628-4722 · FACSIMILE (909)591-2198

[www.yoshimura-rd.com](http://www.yoshimura-rd.com)

## **PIM II (EMS Peripheral Interface module)**

**KAWASAKI**  
**2008-2010**  
**KFX-450**

**R-45-215**

PERIPHERAL INTERFACE MODULE



**Note: Read through all instructions before beginning installation.**



THIS PRODUCT IS INTENDED FOR USE ONLY IN CLOSED COURSE RACING OR  
OTHER OFF ROAD COMPETITION AND NEVER ON PUBLIC ROADS OR  
HIGHWAYS

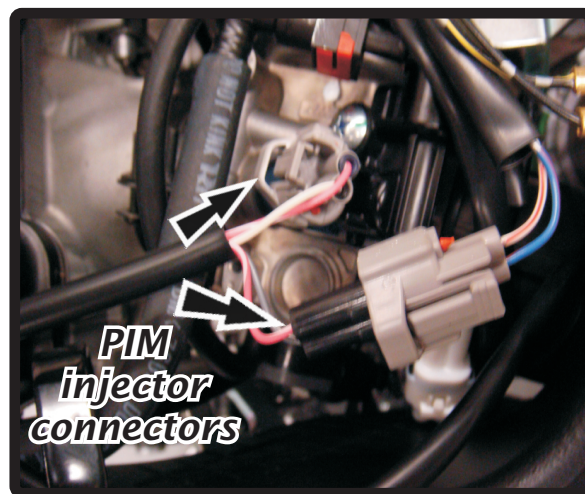
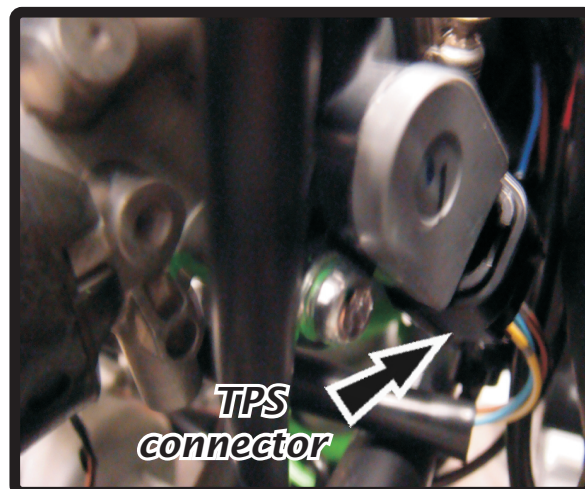
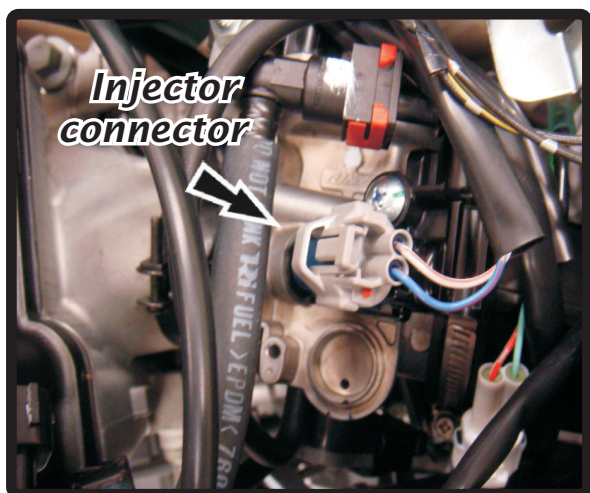
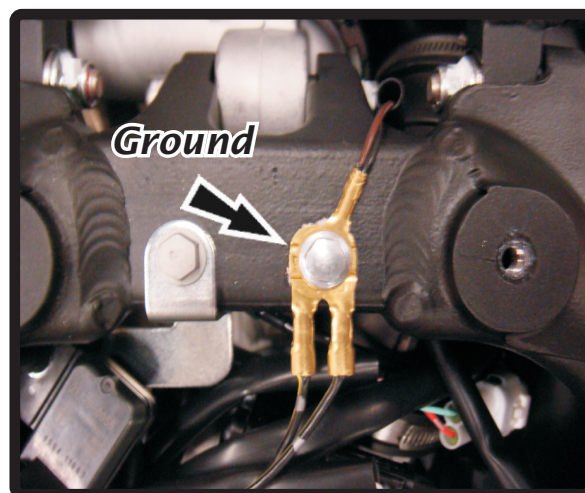


Qualified Technician Installation Highly Recommended

NOTE: IN THE STATE OF CALIFORNIA, IT IS ILLEGAL TO MODIFY THE EMISSION CONTROL SYSTEM. WHICH INCLUDES THE FUEL INJECTION SYSTEM OF ANY VEHICLE.

**Installation Steps:**

- 1 Make sure the ATV is turned off and cooled down before beginning installation of the PIM II.
- 2 Remove the seat, left and right side covers, fuel tank cover, fuel tank, and front fender. Refer to the factory service manual.
- 3 Locate the stock fuel injector (Fig. 1), disconnect the stock connector and connect the Yoshimura PIM harness to the stock fuel injector and connector. (Fig. 2)
- 4 Locate the throttle position sensor connector near the left side of the subframe. (Fig. 3) Disconnect the stock TPS connector and connect the Yoshimura PIM harness to the TPS sensor and connector.
- 5 Attach PIM harness ground wire to ATV's chassis ground. (Fig. 4)
- 6 Route the PIM harness forward to the front of the ATV. (Fig. 5)
- 7 Locate a black wire protector near the front of the ATV. Inside the black wire protector find the crank position sensor (CPS) connector, a black two pin connector. (Fig. 6) Disconnect the CPS sensor and connect the PIM harness.

**Fig. 2****Fig. 3****Fig. 1****Fig. 4**

- 8 In the black wire protector as in step 7, find the four pin black connector housing one pink, one light green, one blue/yellow and one brown wire. (Fig. 8) Disconnect the connectors cover and connect PIM Power wire connector.
- 9 Remove the two OEM bolts holding the regulator in place and install the PIM bracket using the OEM bolts. (Fig. 8)
- 10 Attach supplied Hook-&-Loop adhesive to Yoshimura PIM bracket and bottom of the PIM. Connect the black PIM harness plug into the PIM (Fig. 10).
- 11 Check that all wiring connections are tight.
- 12 Reinstall headlights and bracket, front fender, fuel tank and cover, side panels, ignition switch, and seat. Check that wiring is not pinched or kinked.
- 13 If any problem is found, please carefully follow through the installation steps again. If problem still persists, please call Yoshimura technical department at

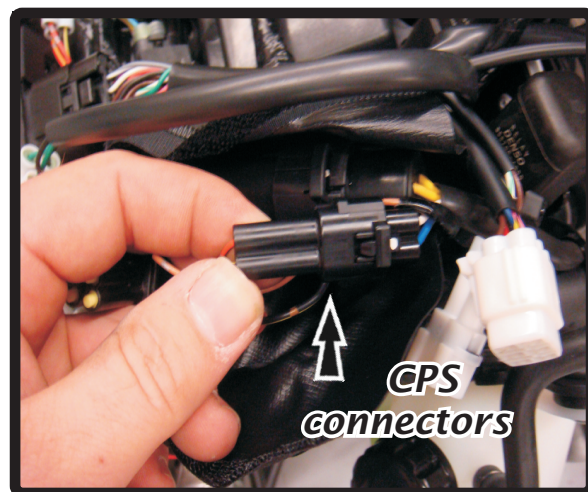


Fig. 6

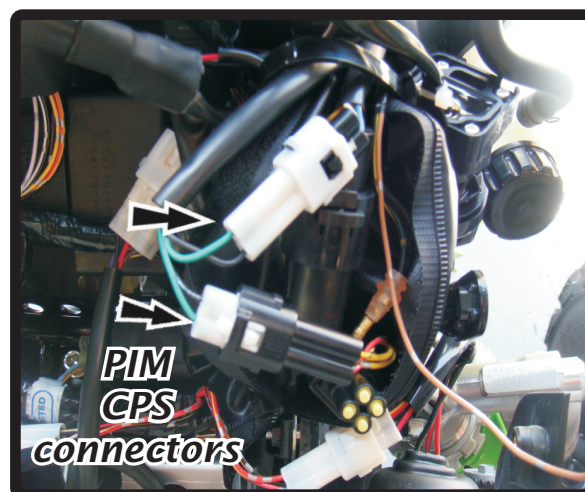


Fig. 7

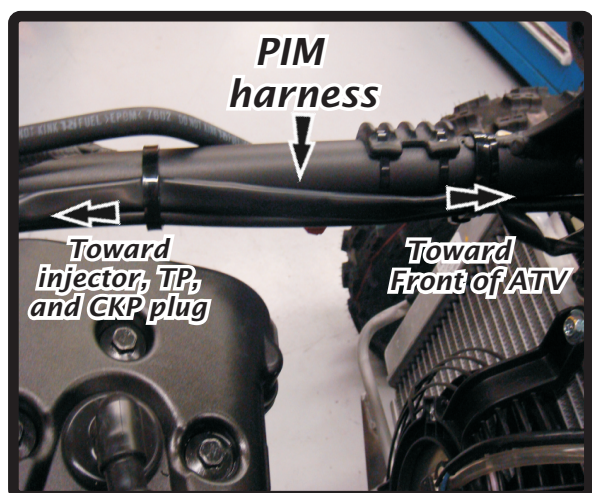


Fig. 5

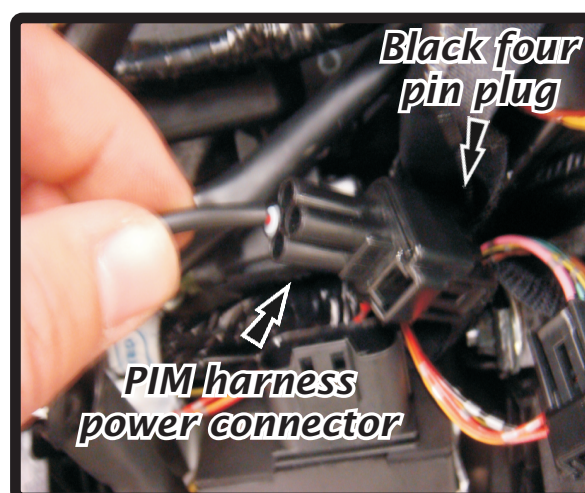


Fig. 8

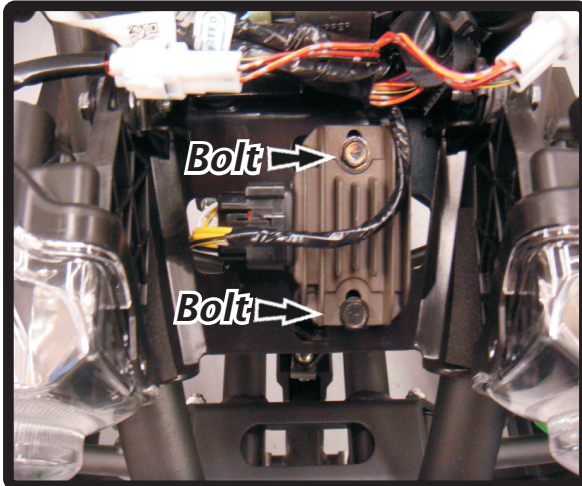


Fig. 9

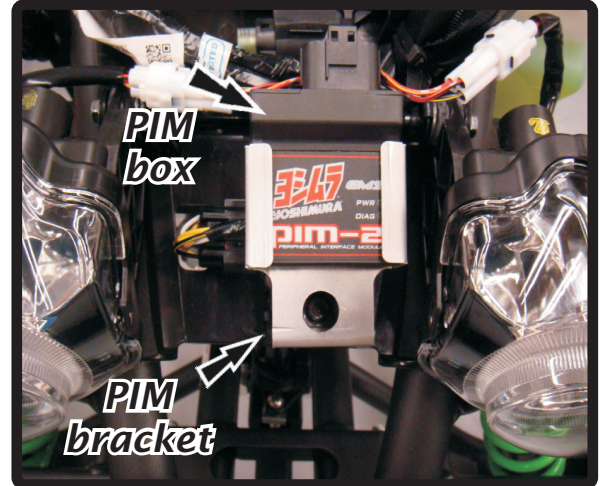
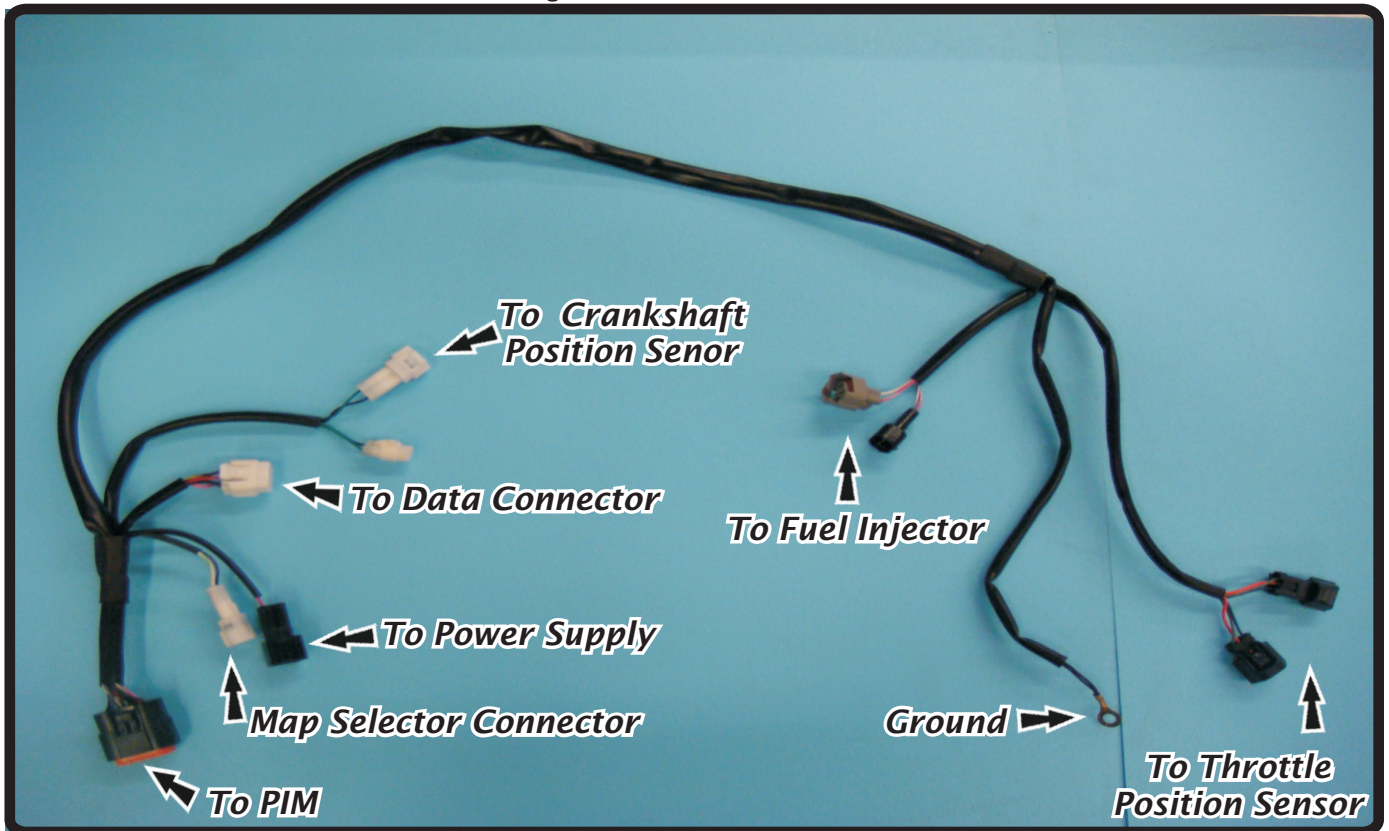


Fig. 10



## Parts list:

DESCRIPTION	QTY	PART #
PIM	1	R-433B
PIM Harness	1	R-433-2415-HB
Aluminum Bracket	1	R-433-2415-BRKT
Yoshimura USA sticker	1	17029
Hook-&-Loop Adhesive	1	5000-V
Cable Tie	8	ZT-300
PIM2 Software CD	1	R-433-CD
USB Cable	1	R-433-USB
Instructions	1	INST KIT

**Operation Steps:**

The PIM comes with two preprogrammed maps. Map 0 is when the ATV has a Yoshimura full exhaust system with spark arrester installed and stock air box lid removed. Map 1 is when the ATV has a Yoshimura full exhaust system with spark arrester removed, and stock air box lid removed.

Use the map selector plug to switch between maps. Map 0 is active when the selector plug is connected (Fig. 11). Map 1 is active while the selector plug is disconnected (Fig. 12).

**NOTE:** Before connecting the map selector plug remove the map selector plug cover (Fig. 12).



Fig. 11



Fig. 12